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# Acronyms and Abbreviations

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µg/m <sup>3</sup>	micrograms per cubic meter
AADT	annual average daily traffic
AAQS	ambient air quality standards
AC	alternating current
ACGIH	American Conference of Government Industrial Hygienists
ACHP	Advisory Council on Historic Preservation
ADT	average daily traffic
AFC	Application for Certification
AFY	acre-feet per year
AHPA	Archaeological and Historic Preservation Act
AM	archaeological monitor
ANSI	American National Standards Institute
APE	Area of Potential Effect
API	American Petroleum Institute
APLIC	Avian Power Line Interaction Committee
APN	assessor's parcel number
AQMD	air quality management district
ARB	California Air Resources Board
asl	above mean sea level
ASME	American Society of Mechanical Engineers
AST	aboveground storage tank
ATCMs	air toxics control measures
AVO	average vehicle occupancy
BACT	Best Available Control Technology
BMPs	best management practices
BPIP	Building Profile Input Program
BRMIMP	Biological Resources Mitigation Implementation and Monitoring Plan
Btu	British thermal unit

CAA	U.S. Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAISO	California Independent System Operator
Cal/EPA	California Environmental Protection Agency
CalARP	California Accidental Release Prevention Program
Cal-OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CAM	Compliance Assurance Monitoring
CAP	Comprehensive Annexation Plan
CARB	California Air Resource Board
CAS	Chemical Abstract Service
CBC	California Building Code
CCR	California Code of Regulations
CCTR	Central California Traction Railroad
CCTS	Central California Taxonomic System
CDC	California Department of Conservation
CDFG	California Department of Fish and Game
CDOF	California Department of Finance
CDPD	Cellular Digital Pocket Data
CEC	California Energy Commission
CEDD	California Employment Development Department
CEM	continuous emissions monitors
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liabilities Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
CHP	California Highway Patrol
CHRIS	California Historical Resource Information System
CIWMA	California Integrated Waste Management Act
CIWMB	California Integrated Waste Management Board
CNDDB	California Natural Diversity Data Base

CNPS	California Native Plant Society
CO	carbon monoxide
CPM	Compliance Project Manager
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRT	cathode ray tube
CSC	California Species of Special Concern
CTG	combustion turbine generator
CUP	conditional use permit
CUPA	Certified Unified Program Agency
CVEC	Central Valley Energy Center
CWA	Clean Water Act
dB	decibel
dBA	decibel, A-scale
DC	direct current
DCS	distributed control system
DHS	California Department of Health Services
DNL	day-night noise level (also Ldn)
DOT	U.S. Department of Transportation
DPR	California Department of Parks and Recreation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EAF	equivalent availability factor
EHD	Environmental Health Department
EHS	Extremely Hazardous Substance
EIR	Environmental Impact Report
EJ	Environmental Justice
EMD	California Environmental Management Department
EMF	electromagnetic field
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act

ER	Emergency Room
ERAf	Education Revenue Augmentation Fund
ERC	emission reduction credits
ERM	Environmental Resources Management
ERPG	Emergency Response Planning Guidelines
ERPG-1	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without experiencing other than mild transient adverse health effects
ERPG-2	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without developing irreversible or serious health effects
ERPG-3	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without experiencing life-threatening health effects
ESA	environmentally sensitive area
F	Fahrenheit
FAA	Federal Aviation Administration
FCFPD	Fresno County Fire Protection District
FCREC	First contingency rated exit capability
FCRTA	Fresno County Rural Transit Agency
FDA	U.S. Food and Drug Administration
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FESA	Federal Endangered Species Act
FID	Fresno Irrigation District
FMMP	Farmland Mapping and Monitoring Program
FR	Federal Register
g	gravity
GGS	giant garter snake
Gj/hr	gigajoules per hour
GO	general order
g/m <sup>2</sup> /year	grams per square meter per year
gpcd	gallon capacity per day

gpm	gallons per minute
GSU	generator step-up unit
Gwh	gigawatt hours
H&SC	Health & Safety Code
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HCWL	California Hazardous Waste Control Law
HDD	horizontal directional drilling
Hg <sub>a</sub>	mercury (atmospheric)
HHV	high heating value
HIs	hazard indices
HM	heavy manufacturing
HMBP	Hazardous Materials Business Plan
HMMP	Hazardous Materials Management Plan
HMRT	Hazardous Materials Response Team
hp	horsepower
HP	high pressure
HPA	high probability areas
HRSG	heat recovery steam generator
HSP	Health and Safety Plan
HTW	high-temperature water
HWCL	Hazardous Waste Control Law (California)
Hz	hertz
I/O	input/output
IDLH	immediately dangerous to life and health
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IGCC	integrated gasification combined-cycle
IP	intermediate pressure
IPP	independent power producers
IS/ND	Initial Study/Negative Declaration

IWAQM	Interagency Workgroup on Air Quality Modeling
kA	kiloampere
kHz	kilohertz
KOP	key observation point
kV	kilovolt
kV/m	kilovolts per meter
lb/hr	pounds per hour
L <sub>90</sub>	noise level exceeded 90 percent of measurement period
LAFCO	Local Agency Formation Commission
LC	load center
LD <sub>50</sub>	dose lethal to 50 percent of those tested
LDLO	lowest published lethal dose
L <sub>dn</sub>	day-night noise level (also DNL)
LEL	lower explosive limit
LEPC	Local Emergency Planning Committee
L <sub>eq</sub>	equivalent noise level
L <sub>n</sub>	percentile noise level
LO/TO	lock-out/tag-out
LORS	laws, ordinances, regulations, and standards
LOS	level-of-service (traffic)
LP	low pressure
LU	land use
mA	milliamperes
MACT	maximum achievable control technology
MCC	motor control center
MCE	maximum credible earthquake
MEI	maximally exposed individual
MG	million gallons
mG	milligauss
mg/kg	milligrams per kilogram
mg/L	milligrams per liter

mg/m <sup>3</sup>	milligrams per cubic meter
MHz	megahertz
MICR	maximum individual cancer risk
MLD	most likely descendent
MMBtu	million British thermal units
MOA	Memorandum of Agreement
MP	mile post
mph	miles per hour
MRF	Materials Recovery Facility
MRZ	Mineral Resource Zone
MSDS	material safety data sheet
msl	mean sea level
MSW	municipal solid waste
mvm	million vehicle miles
MW	megawatt
NAAQS	national ambient air quality standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
NALMA	North American Land Mammal Age
NaOH	sodium hydroxide
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NH <sub>3</sub>	ammonia
NH <sub>5</sub>	diluted ammonia vapor
NHPA	National Historic Preservation Act
NIOSH	National Institute of Occupational Health and Safety
NMFS	National Marine Fisheries Service
NO	nitric oxide
NO <sub>2</sub>	nitrogen dioxide

NOI	Notice of Intent
NO <sub>x</sub>	oxides of nitrogen
NPCA	Notice of Proposed Construction or Alteration
NPDES	National Pollution Discharge Elimination System
NPS	National Park Service
NRC	Nuclear Regulatory Commission
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSPS	Standards of Performance for New Stationary Sources
NSR	New Source Review
NTREC	normal total rated exit capability
NWP	Nationwide Permit
O <sub>2</sub>	oxygen
O <sub>3</sub>	ozone
O&M	operations and maintenance
OEHHA	California Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services (Fresno County)
OSD	official soil descriptions
OSHA	U.S. Occupational Safety and Health Administration
PA	project archaeologist
PAHs	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
PEL	OSHA permissible exposure limit for 8-hour workday
PFBC	pressurized fluidized bed combustion
PG&E	Pacific Gas and Electric
PM <sub>2.5</sub>	particulate matter, effective diameter less than 2.5 microns
PM <sub>10</sub>	particulate matter, effective diameter less than 10 microns
PPE	Personal Protective Equipment
ppm	parts per million
ppmvd	parts per million by volume dry
PRC	Public Resource Code

PRC	PaleoResource Consultants
PSD	prevention of significant deterioration
psig	pounds per square inch gauge
PSM	Process Safety Management Plan
PUC	Public Utilities Code
RCRA	Resource Conservation and Recovery Act
RDF	refuse-derived fuel
RELs	reference exposure levels
RH	relative humidity
RI-TVI	Radio Interference and Television Interference
RMP	Risk Management Plan
RMPP	Risk Management Prevention Program
RO	reverse osmosis
ROCs	reactive organic compounds
ROG	reactive organic gases
ROW	right-of-way
RQ	Reportable Quantity
RWQCB	Regional Water Quality Control Board
SAA	Streambed Alteration Agreement
SARA	Superfund Amendments and Reauthorization Act
SC	Species of Special Concern
SCADA	Supervisory Control and Data Acquisition
SCC	Sacramento County Code
SCR	selective catalytic reduction
SCWA	Sacramento County Water Agency
SERC	State Emergency Response Commission
SF <sub>6</sub>	sodium hexafluoride
S&HC	Streets and Highways Code
SHPO	State Historic Preservation Officer
SHRA	screening health risk assessment
SIGT	steam-injected gas turbine

SIP	State Implementation Plan
SJVUAPCD	San Joaquin Valley Unified Air Pollution Control District
SLR	Single Lens Reflex (Camera)
SMAQMD	Sacramento Metropolitan Air Quality Management District
SMUD	Sacramento Municipal Utility District
SNA	Significant Natural Areas
SO <sub>2</sub>	sulfur dioxide
SOPs	Standard Operating Procedures
SO <sub>x</sub>	oxides of sulfur
SPCC	spill prevention, control, and countermeasures
SRWTP	Sacramento Regional Wastewater Treatment Plant
STEL	short-term exposure limit, 5-minute exposure
STG	steam turbine generator
SVP	Society of Vertebrate Paleontology
SWP	State Water Project
SWPC	storm water pollution control
SWPPP	storm water pollution prevention plan
TACs	toxic air contaminants
T-BACT	best available control technology for toxics
TCLO	lowest published toxic concentration
TDS	total dissolved solids
3-D	Three dimensional
TLV	ACGIH threshold limit value for 8-hour workday
TPQ	threshold planning qualities
tpy	tons per year
TQ	threshold quality
TSD	treatment, storage, and disposal
TSP	total suspended particulate
TWA	NIOSH time-weighted average for 8-hour workday
UBC	Uniform Building Code
UCMP	University of California Museum of Paleontology

UPRR	Union Pacific Railroad
UPS	uninterruptible power supply
USACOE	U.S. Army Corps of Engineers
USB	Urban Service Boundary
USBR	U.S. Bureau of Reclamation
USC	United States Code
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UXO	unexploded ordinance
VOCs	volatile organic compounds
VSD	virtually safe dose
WDR	Waste Discharge Requirements
WTE	waste-to-energy
WWTF	Wastewater Treatment Facility
ZLD	zero-liquid discharge